

BCM FLOW CHART

BCM Diagnostic Flow Chart. Fault Tracing BCM Communication Problems

2005 - 2006 VOLVO S80
2005 - 2007 VOLVO V70 & XC70
2005 - 2009 VOLVO S60
2005-2013 VOLVO XC90

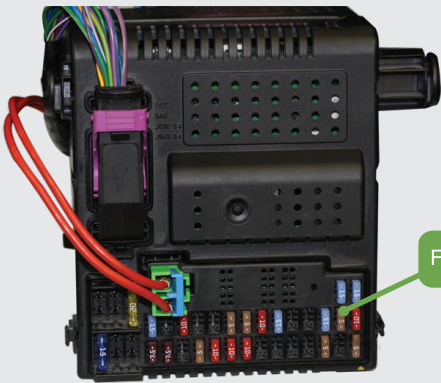


Fig. 1 Central Electronic Module

Fuse # 15 (5A)

**START
HERE**

Are all the ABS warning lights illuminated? Including "ABS System Service Required" message?

YES

NO

Not the warning lights, only the message is displaying but it says "Traction System Service Required"

Connect the diagnostic scan tool. Can the tool communicate with the BCM?

YES

NO

I don't have the scan tool

NO

Is your vehicle All Wheel Drive?

YES

Please refer to specific diagnostic procedures for each DTC.

Central Electronic Module (CEM) on 2005 and newer Volvos can prevent the BCM from communicating on the CAN-Bus network. The following steps will help you diagnose a faulty CEM.

Problem is most likely related to the DEM failure. Please refer to our Differential Electronic Module (DEM) diagnostic flow chart.

- 1 On the driver's side remove the under-dash inspection cover.
- 2 Start the car.
- 3 Using a test light, check for power to fuse #15 on the CEM. Is 12V present at the fuse? See Fig. 1

YES

- 1 Disconnect the large plug from the BCM Module. See Fig. 2
- 2 Switch the ignition on
- 3 Using a test light, check for power (12V) on pins 1 & 32. Do you have the 12V present?

Internal fault in the CEM module. Without power present at fuse #15 the BCM will be off the CAN-Bus network. Remove the CEM and send it to us for repair.

NO

Check maxi fuses # 14 and #19 in the engine compartment fuse box.

NO

YES

Do you have a ground at pins 16 and 47?

NO

YES

Check the 3 grounding terminal screws on top of the left fender.

Switch the ignition on. Do you have 12V at pin 4?

NO

YES

There is an open in wire from pin #22 on the CEM to pin # 4 on the BCM. Make sure that the fuse #15 is powered up and the fuse is not blown.

BCM is defective. Remove the unit and send it to us for repair.

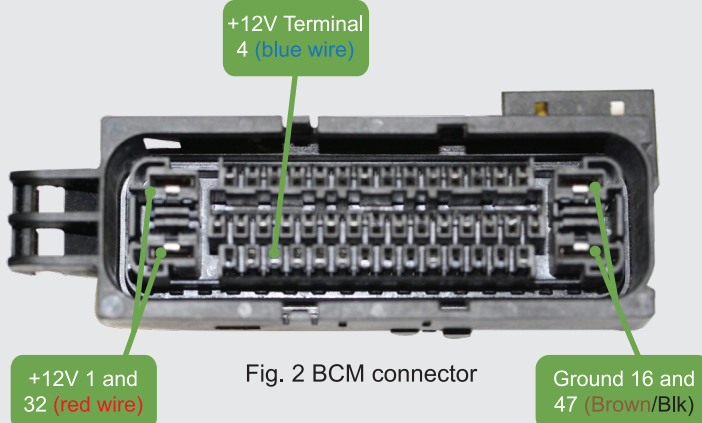


Fig. 2 BCM connector

+12V Terminal 4 (blue wire)

+12V 1 and 32 (red wire)

Ground 16 and 47 (Brown/Blk)